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Reply to Office Action of 5/19/03

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

Claims 1-11 (canceled)

Claim 12. (currently amended) A method of identifying *in silico* each compound of a virtual library of compounds comprising:

dissecting said compounds into constituent fragments, where the constituent fragment is associated with at least one reagent, which represents a necessary chemical to introduce the constituent fragment into the compound, and where the dissecting is based on the ease of synthesis of the compound from the constituent fragments;

adding said constituent fragments together in sequential synthesis rounds defining thereby a synthetic method for the compound from the constituent fragments; and

tracking the virtual synthetic addition of constituent fragments of said compounds according to the synthetic method for the compound.

Claims 13-26 (canceled)